# Space Station and Payloads Processing
# ISS-2A.2b

# SPACEHAB-Logistics Double Module
# Integrated Cargo Carrier
# Assembly Power Converter Unit
# GAS-782
# SEM-08

# Agenda

| | |
|---|---|
| • Acronyms | In Back-Up |
| • Processing Status | To Be Briefed |
| • Middeck Experiment Requirements | To Be Briefed |
| • Launch Delay Requirements | To Be Briefed |
| • Engineering Status | To Be Briefed |
| • Issues / Concerns | None |
| • Readiness Certification | To Be Briefed |

# 2A.2b / STS-106 Processing Milestones

- **OPF**
  - APCU / Orbiter IVT #1 — June 2 (A)
  - STS-101 Download Complete — June 9 (A)
  - GAS (SEM-08 / G-782) Installation Into Orbiter — July 17 (A)
  - CEIT — July 22 (A)
  - APCU / Orbiter IVT #2 — July 25 (A)
- **SSPF**
  - SPACEHAB-LDM On Dock / Into Canister — August 8 (A)
- **O&C**
  - ICC-UCP On Dock / Into Canister — August 9 (A)
- **CRF**
  - Payload Canister Rotation To Vertical — August 10 (A)

# 2A.2b / STS-106 Processing Milestones

- **Pad B**

| | | |
|---|---|---|
| – SPACEHAB-LDM / ICC-UCP Transfer to Pad | August 11 | (A) |
| – Space Shuttle Vehicle Transfer to Pad | August 14 | (A) |
| – SPACEHAB-LDM / ICC-UCP Installation Into Orbiter | August 16 | (A) |
| – SPACEHAB-LDM ECS / Electrical Mates | August 17 | (A) |
| – Terminal Countdown Demonstration Test | August 17 – 18 | (A) |
| – SPACEHAB-LDM Tunnel Mates (MVAK) | August 21 | (A) |
| – SPACEHAB-LDM / Orbiter IVT Task #1 (MVAK) | August 22 | (A) |
| – SPACEHAB-LDM / Orbiter IVT Task #2 | August 26 | (A) |
| – SPACEHAB-LDM Early Stow (MVAK) | August 28 | (A) |
| – Launch Package External Closeouts | August 30 | |
| – Close Payload Bay Doors For Flight | August 30 | |
| – SPACEHAB-LDM Late Stow (MVAK) | September 6 (If Req.) | |
| – Middeck Experiment Late Stow | September 7 | |
| – Launch | September 8 | |

# 2A.2b / STS-106 Middeck Experiment Requirements

| Payload | Installation | IVT | Ascent Power | Launch Delay Requirement | Post-Landing Destow |
|---|---|---|---|---|---|
| CGBA | </= L - 19 hrs | Yes | Yes | 24 Hours | Runway |
| PCG-EGN Dewar | </= L - 24 hrs | No | No | 48 Hours | Xfer to ISS |
| SOAR Hardware * | N/A | N/A | N/A | N/A | Runway |
| SPACEHAB FDF * | N/A | N/A | N/A | N/A | Runway |
| Operations Data File | N/A | N/A | N/A | N/A | Runway |
| Air Sampling Bottles | N/A | N/A | N/A | N/A | Runway |
| Asst. Russian Hardware | N/A | N/A | N/A | N/A | Runway |
| Asst. U.S. Camera Equip. | N/A | N/A | N/A | N/A | Runway |
| Oxygen/Comm. Assy. | N/A | N/A | N/A | N/A | OPF/MDD |
| Passive Dosimeter Sys. | N/A | N/A | N/A | N/A | OPF/MDD |
| CHeCS FMK | N/A | N/A | N/A | N/A | OPF/MDD |

* Note: These items will be transferred from the SPACEHAB module to the middeck prior to entry. This will eliminate the need for SPACEHAB module runway access.

# 2A.2b / STS-106 Launch Delay Requirements

- Access to the SPACEHAB-LDM will be required for atmospheric revitalization if the time between module ground purge removal and T-0 exceeds 35 days
- ICC, APCU, GAS-782, and SEM-08 have no launch delay requirements

# 2A.2b / STS-106 Engineering Status

- **OMRSD**
  - No pending changes
  - No open waivers or exceptions
- **Nonconformances**
  - All Problem Reports have been closed or are in closure
- **Procedures**
  - All payload processing procedures have either been released or are scheduled to be released and will meet all applicable “on the sh requirements
- **Launch Commit Criteria**
  - None
- **Certificate of Flight Readiness**
  - No exceptions

# Readiness Certification

**Pending successful completion of scheduled work, the KSC 2A.2b / STS-106 Mission Processing Team is ready to proceed with launch.**

Back-Up Material

# Acronyms

| | |
|---|---|
| APCU | Assembly Power Converter Unit |
| CHeCS | Crew Health Care System |
| CGBA | Commercial Generic Bioprocessing Apparatus |
| CWC | Contingency Water Container |
| FDF | Flight Data File |
| FMK | Formaldehyde Monitor Kit |
| GAS | Get Away Special |
| ICC | Integrated Cargo Carrier |
| KYA | Keel Yoke Assembly |
| LDM | Logistics Double Module |
| MVAK | Module Vertical Access Kit |
| PCG-EGN | Protein Crystal Growth – Enhanced Gaseous Nitrogen |
| SEM | Space Experiment Module |
| SOAR | Space integrated global positioning system / inertial navigation system Orbital Attitude Readiness experiment |
| SODF | Systems Operational Data File |
| UCP | Unpressurized Cargo Pallet |